

Claims

1. An uninterruptible power supply for providing AC power to a load, the uninterruptible power supply comprising:
  - 5 an input to receive AC power from an AC power source;
  - an output that provides AC power;
  - a DC voltage source that provides DC power, the DC voltage source having an energy storage device;
  - an inverter operatively coupled to the DC voltage source to receive DC power
  - 10 and to provide AC power;
  - a transfer switch constructed and arranged to select one of the AC power source and the DC voltage source as an output power source for the uninterruptible power supply; and
  - a chassis for housing at least the DC voltage source, inverter, and transfer switch, the chassis comprising:
    - 15 a first panel having a substantially “L” shaped appearance;
    - a second panel constructed and arranged to mate to the first panel; and
    - a first fastener securing the first panel and the second panel into a substantially fixed configuration.
- 20 2. The uninterruptible power supply of claim 1 further comprising a printed circuit board comprising at least one electronic component, wherein at least one of the first and second panels further comprises at least one integrated fastener constructed and arranged to attach the printed circuit board to the respective panel.
- 25 3. The uninterruptible power supply of claim 1, wherein at least one of the first panel and second panel further includes at least one crush rib constructed and arranged to hold a component disposed adjacent to the crush rib in a substantially fixed position.
4. The uninterruptible power supply of claim 1, wherein the second panel further  
30 comprises an integrally formed compartment.
5. The uninterruptible power supply of claim 4 wherein the compartment is constructed and arranged to enclose the energy storage device.

6. The uninterruptible power supply of claim 5 further comprising a movable access panel providing access to the compartment.

5 7. The uninterruptible power supply of claim 1, wherein at least a portion of the chassis is formed from at least one material selected from the group including plastic, semi-rigid polycarbonate (PC), Acrylonitrile-Butadiene-Styrene (ABS), ABS/PC, flame-retardant PC, ABS and ABS/PC products, polyvinyl chloride (PVC), polystyrene, high impact polystyrene (HIPS), polybutylene Terephthalate (PET), PC/PET, polybutylene terephthalate (PBT),  
10 PC/PBT, polyetherimide (PEI), acetal copolymer (POM), and metal.

8. The uninterruptible power supply of claim 1, wherein the chassis further comprises a third panel constructed and arranged to mate to the first panel and the second panel and wherein the first fastener is coupled to the third panel.

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9. The uninterruptible power supply of claim 8, further comprising a second fastener coupled to the third panel and wherein the first fastener attaches the first panel to the third panel and the second fastener attaches the second panel to the third panel, whereby the first panel and the second panel are fixedly secured.

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10. The uninterruptible power supply of claim 8 wherein at least one of the first and second panels further comprises an integrally formed latch and wherein the third panel further comprises an integrally formed hook constructed and arranged to pivotably engage the latch.

25 11. The uninterruptible power supply of claim 8 wherein the input further comprises a line cord assembly constructed and arranged to mate with a line cord opening integrally formed into the third panel.

12. The uninterruptible power supply of claim 8 wherein the line cord assembly further  
30 comprises an integrally formed strain relief element operably engaging the line cord opening.

13. The uninterruptible power supply of claim 11 wherein the line cord assembly further comprises an integrally formed detent constructed and arranged to catch the line cord opening to keep the line cord assembly attached to the third panel.